Transportation Primer

Joint Appropriations Subcommittee on Transportation February 13, 2013

Amna Cameron Fiscal Research Division



Agenda

- Background
- Transportation Revenues
 - Items for Consideration
- Transportation Spending
 - Highway Fund
 - Highway Trust Fund
 - Items for Consideration
- Summary

Background

North Carolina's State-Owned Highway System is:

- Large 79,000 miles, second largest in the country
 - Texas is number one, by a few hundred miles
 - North Carolina secondary roads are state-owned
- Centralized All dollars flow to Raleigh
 - Transportation project decisions made in Raleigh by Board of Transportation (G.S. 143B-350) and Secretary (S.L. 2012-84) subject to:
 - Statutory formulas
 - Local Input

Background, continued State Owned Roads

State	Road Miles Owned by State Agency	Total Road Miles	Percent Owned by State Agency	
Florida	12084	121703	10%	
Georgia	17,984	122,917	15%	
North Carolina	79,466	105,653	75%	
South Carolina	41,422	66,024	63%	
Tennessee	13,871	94,207	15%	
Texas	80,067	311,249	26%	
Virginia	58,103	74,378	78%	
U.S. Total	784,588	4,107,691	19%	
Source: FHWA, Highway Statistics 2009 and 2010				

- Greater share than Florida, Georgia, or the nation as a whole.
- Local roads usually owned and controlled by local jurisdictions.

1915

- First full fledged State Highway Commission established
 - Provided road building assistance to counties

1921-1929

- NCGA authorizes takeover of 5500 miles of county roads.
- Motor Fuel Tax raised to 5 cents per gallon (equivalent to 63 cents per gallon today)
- \$115 million in highway bonds issued
- North Carolina is the "Good Roads State"

1931

• During the Depression the state assumes responsibility for county roads, giving state responsibility for all roads except city streets.

1951

- Powell Bill
 - State takes over city streets which are part of the state highway system
 - Provided ½ cent per gallon from the motor fuel tax to cities for other city streets; allocated based on statutory formula.

1980's

- Transportation infrastructure and funding mechanisms prove inadequate for the state's growth.
- Highway Study Commission recommends a multibillion dollar highway construction program.

1989

Creation of Highway Trust Fund (HTF)

- Goals are
 - Completion of the Intrastate Highway System, a 3600 mile network of four-lane highways.
 - Construction of seven urban loops.
 - Pave 10,000 miles of state-maintained dirt roads.
 - Increase Powell Bill funding.

2002

• North Carolina Turnpike Authority created as an independent agency to examine the feasibility of tolling roads. The original projects were defined in Statute in 2005.

2003 and 2004

 Project lists for Intrastate System and Urban Loops are amended

2007

• S.L. 2007-428 (SB 1513) Counties authorized to participate in the cost of rights-of-way, construction, reconstruction, improvement, or maintenance of roads on the State Highway System under agreement with the Department of Transportation.

2008

Gap Funding for Turnpike Authority

• S.L. 2008-107 begins gap funding for four North Carolina Turnpike Authority toll projects, decreasing the transfer from the Highway Trust Fund to the General Fund.

2010

North Carolina Mobility Fund

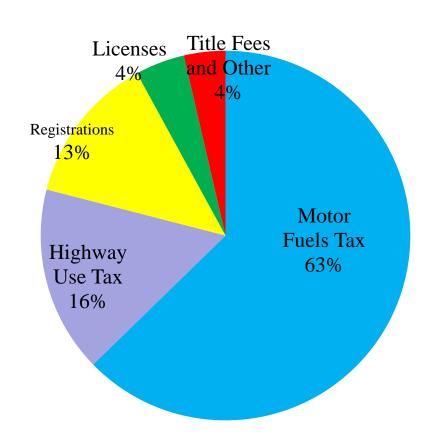
• S.L. 2010-31 (SB 897) established Mobility Fund.

FY2011-13 Session Recap

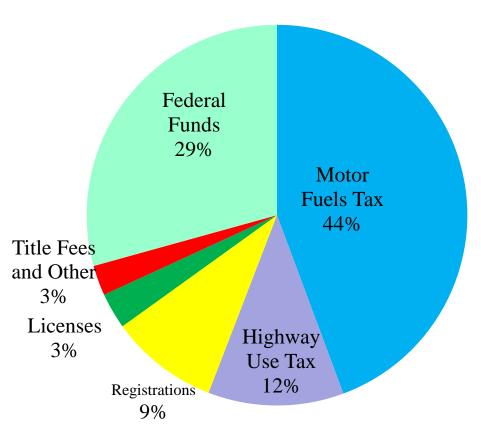
- Major bridge and contract resurfacing programs
- Prioritization codified
- Intrastate and Urban Loops funding increased
- Urban Loop projects removed from statute
- Mobility Fund redefined
- Privatization and outsourcing increased
- Key IT projects advanced

Transportation Revenues FY 2013

State Revenues



Total Revenues



\$3.0 billion

\$4.2 billion

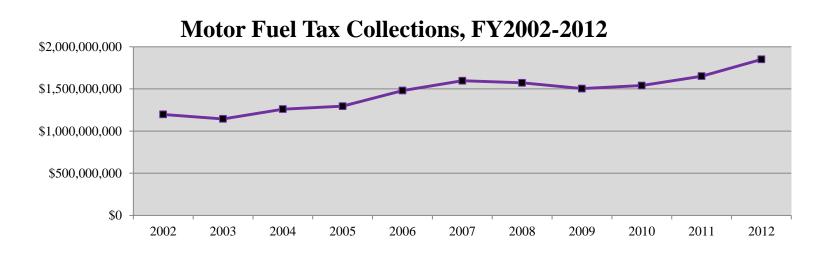
Transportation Revenues Current vs Forecasted

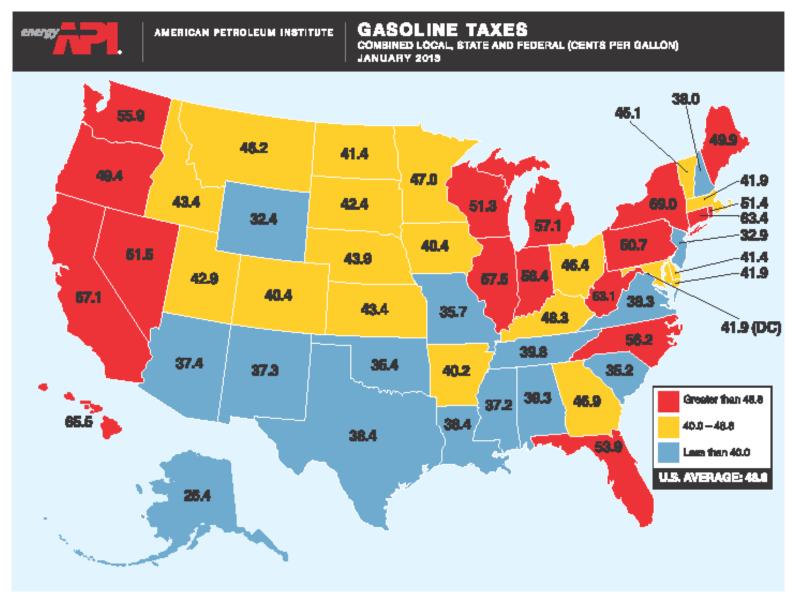
- This is a volatile forecast and represents a consensus between DOT and OSBM, and then Fiscal Research.
- Forecast will be redone in April 2013 and any necessary changes will be incorporated in the Final Budget.
- Assumes Motor Fuels Tax rate is not capped.

	Certified FY 2013	Forecasted FY 2014	Forecasted FY 2015
Highway Fund	\$2,021,030,000	\$1,937,200,000	\$1,892,400,000
Highway Trust Fund	\$1,070,320,000	\$1,105,700,000	\$1,105,400,000
Average Motor Fuels Tax Rate	37.5 cents per gallon	37.4 cents per gallon	36.5 cents per gallon

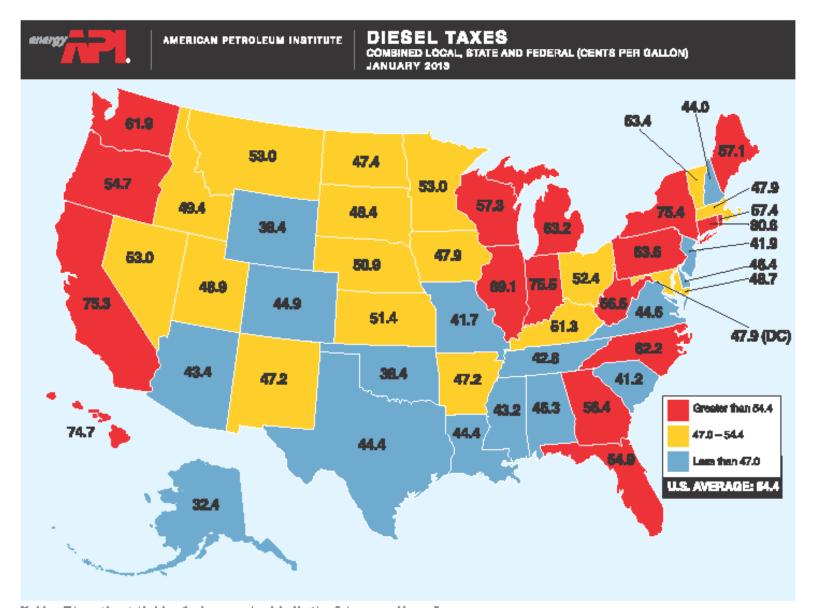
Transportation Revenues Motor Fuel Taxes

- Rate is 37.5 cents per gallon (cpg) through June 30, 2013.
- 17.5 cpg fixed + variable rate based on wholesale price history.
- One cent equals \approx \$50 million in tax revenues.
- Consumption down due to recession, greater fuel efficient vehicles, and higher fuel prices.





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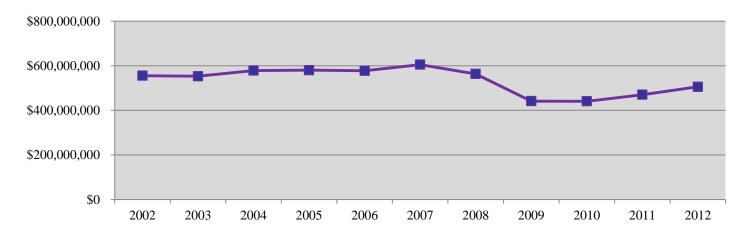




Transportation Revenues Highway Use Tax

- Highway Use Tax is 3% of value of vehicle net of trade.
- North Carolina tax is lower than Georgia, Virginia, and South Carolina.
- Revenues projected to be slightly higher but still far below 2002-2008 revenue collections.

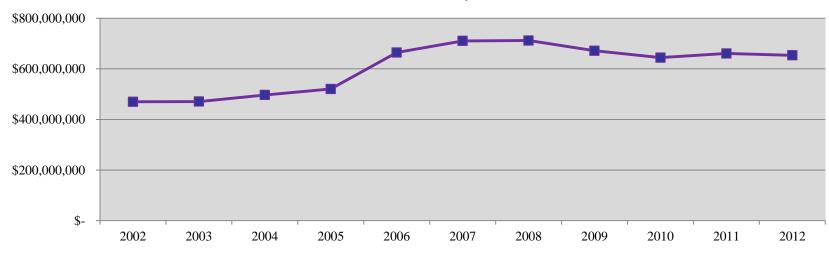
Highway Use Tax Collections , FY2002-2012



Transportation Revenues Licenses and Fees

- Driver licenses, vehicle registration fees, truck licenses, titles...
- Generally driven by demographics.
- General Assembly increased these fees by about 20% in 2005 to account for inflation in the years since they had been set.
- Overall, these fees are similar to surrounding states.

Licenses and Fees Collections, FY2002-2012

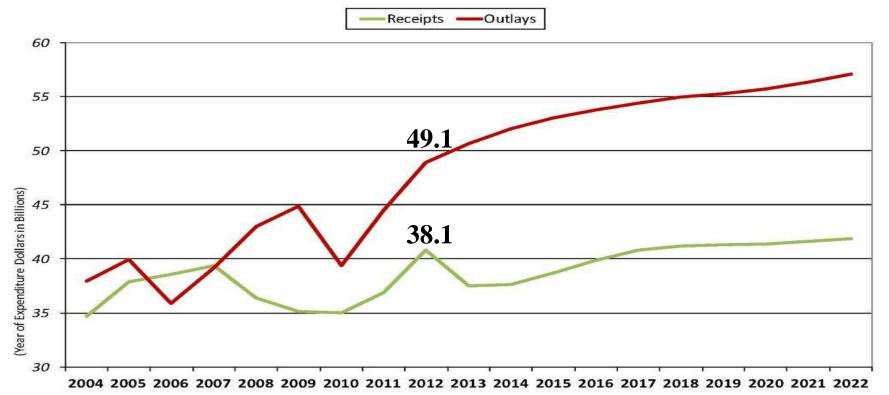


Transportation Revenues Federal Aid

- In recent years federal aid has averaged about \$1 billion.
- MAP-21 in effect through October 1, 2014
 - Similar Funding Level
 - Significant Program Consolidations
 - Additional tolling authority (if road capacity increased)
 - Increased TIFIA loan program
- Potential to lose federal Highway Trust Fund monies in the future. Federal Highway Trust Fund bailouts may not be sustainable.

Transportation Revenues Federal Aid

Highway Trust Fund Receipts and Outlays Discrepancy



Excludes General Fund liquidity transfers of \$8.017 billion in September 2008; \$7 billion in August 2009; \$19.5 billion in March 2010; \$2.4 billion in June 2012 (from LUST); \$6.2 billion in October 2012; and \$7.8 billion in October 2013.

Does not include Transit General Fund outlays.

Source: AASHTO



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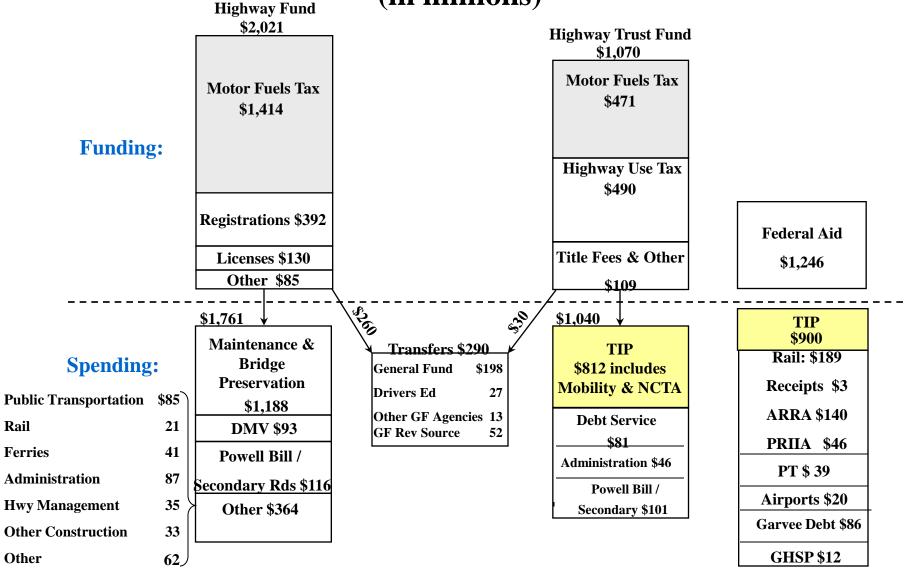
Transportation Revenues - Tolls North Carolina Turnpike Authority

Name	Total Cost	Years Tolled	Annual Gap Funding	Issues
Triangle Expressway	\$1 billion	29	\$25 million (FY 2009)	Project Complete. First year toll collections = \$4 million
Monroe Connector	\$725 million	30	\$24 million (FY 2011)	Debt issued. Construction postponed. Record of Decision pulled. Interest Paid to Date = \$40.8m
Mid-Currituck Bridge (with P3)	\$651 million	50	\$28 million (FY 2014)	Commercial close delayed until costs agreed upon. No Record of Decision issued.
Garden Parkway	\$898 million	30	\$35 million (FY 2014)	Water quality permit applications pulled. Lawsuit in progress.

Transportation Revenues Potential Items to Consider

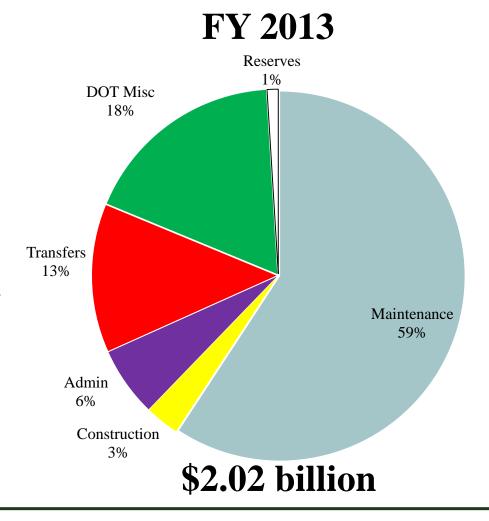
- Should the motor fuels tax be modernized to reflect changes in consumer behavior and technological advancements?
- Should other revenue options be considered?
 - Virginia's path?
 - Increased tolling
 - Vehicle miles travelled
 - Public private partnerships
- Should exemptions in the Highway Use Tax continue?
- Should fees be indexed for inflation?
- Others?

FY 2013 Flow of Funds (in millions)



Transportation Spending Highway Fund

- Maintenance and Operations
- DOT Misc. includes intermodal operations and DMV
- Transfers made to General Fund, Departments of Agriculture, Revenue, Public Instruction, Public Safety, Enviro. and Natural Resources, Agriculture, and Health and Human Services



Transportation Spending HF: Maintenance

• 2012 Maintenance Condition Assessment Report Projections:

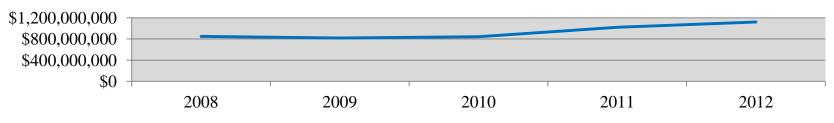
Projected	Projected	Projected	Projected	Projected
Shortfall	Shortfall	Shortfall	Shortfall	Shortfall
FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
\$64 m	\$49 m	\$37 m	\$79 m	

Five Maintenance Categories

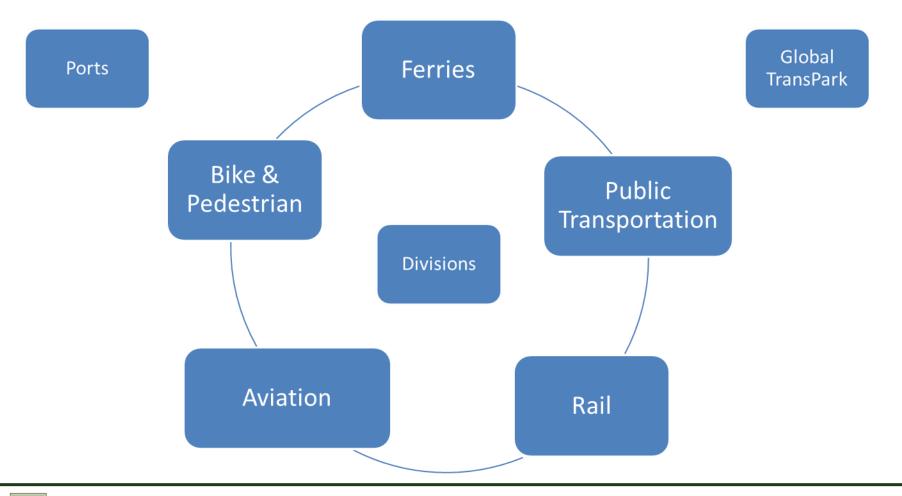
- Primary System (\$138m)
- Secondary System (\$246m)
- System Preservation (\$427m)

- Contract Resurfacing (\$235m)
- General Reserve (\$140m)

Actual Expenditures, FY 2008 - 2012

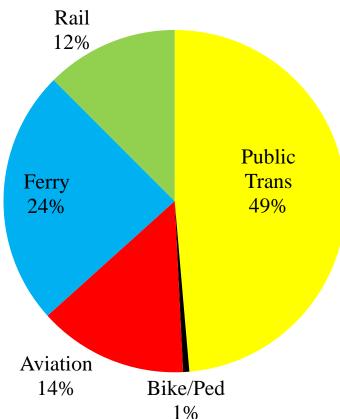


Transportation Spending HF: Intermodal

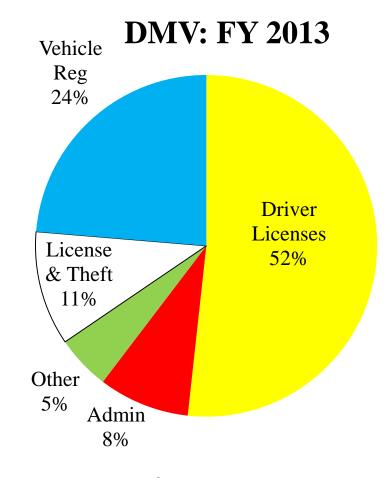


Transportation Spending HF: Intermodal and DMV

Intermodal: FY 2013



\$175 million

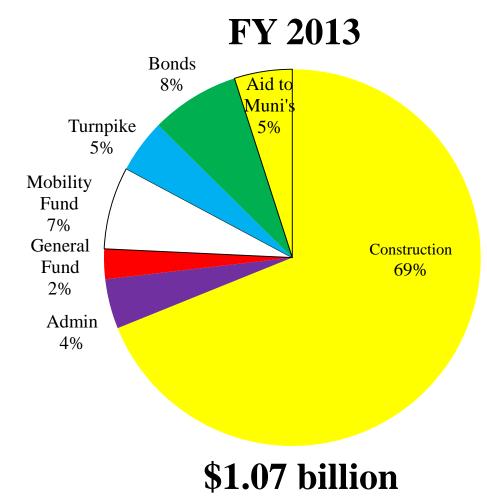


\$92 million



Transportation Spending Highway Trust Fund

- State Construction Fund
- Construction includes:
 - Intrastate System (61.95%)
 - Urban Loops (25.05%)
 - Secondary Rds (6.5%)
 - Aid to Muni's (6.5%)
- Turnpike represents \$49 million in gap funding
- Transfer to General Fund scheduled to be eliminated in FY 2014





Transportation Spending Highway Trust Fund Status at June 30, 2012

	Intrastate System	Loops
Total miles complete	2878	156
Remaining center-line miles to complete	802	203
Percent complete	(78%)	(43%)
Estimated remaining costs	\$8.7 billion	\$7.4 billion
Projected cost per center-line mile	\$10.9 million	\$36.3 million

Transportation Spending HTF: Transportation Improvement Plan (TIP)

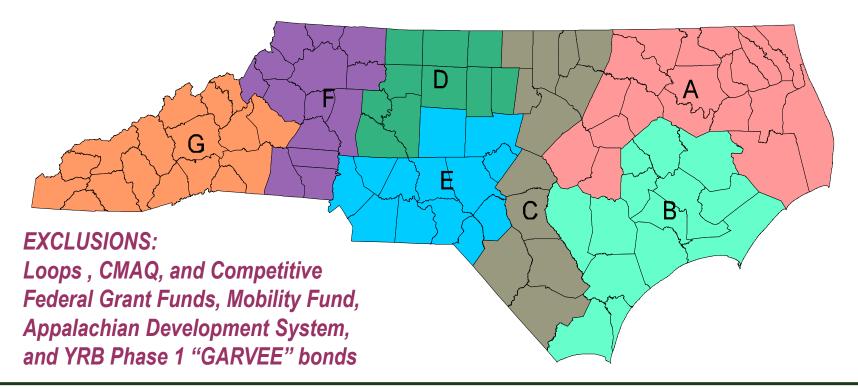
- Required by federal law
- Includes regionally-agreed upon list of priority transportation projects
- Lists all projects that intend to use federal funds, plus all non-federally funded projects that are regionally significant. Includes other State funded capital projects.
- FY 2012 TIP Completion Rate: 71% in 2012
- Prioritization \neq Programming
- FY 2012 Prioritized Funding: 29.4% of total budget

Transportation Spending 1989 Equity Formula

50%
POPULATION OF REGION
AS PERCENT OF STATE

25%
REMAINING
INTRASTATE
SYSTEM
MILES

25% EQUAL SHARE



Transportation Spending HTF: Mobility Fund

FY 2011	FY 2012	FY 2013	FY 2014	FY 2015
\$39 million	\$31 million	\$75.5 million	\$58 million	\$58 million

- First project in named in statute: Yadkin River Bridge Phase 2
- All other projects selected based on PRIORITIZATION

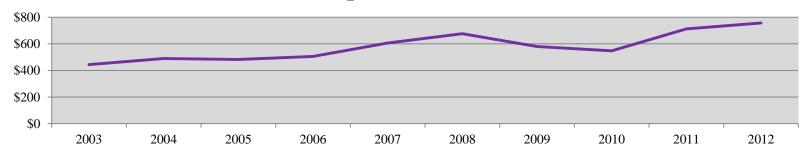
Criteria	Weight
Mobility Benefit-Cost – measured by the estimated travel time savings the project will provide divided by the cost to the Mobility Fund	80%
Multimodal /Intermodal — measured by whether the project provides an improvement to more than one mode of transportation and thus improves the efficiency of the overall transportation system.	20%

Transportation Spending HF + HTF: Secondary Roads

- Three funds:
 - HF Maintenance (\$247m)
 - HF Construction (\$27m)
 - HTF Construction (\$48m)
- S.L. 2005-404 conformed uses of two construction funds purposes.

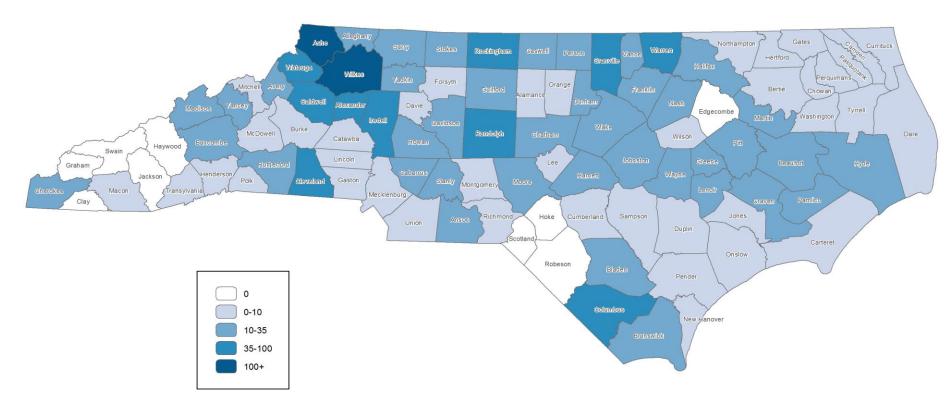
- 89% complete
- 64,411 total miles
- 3,689 miles unpaved:
 - 1625 eligible
 - 2064 on hold

10-Year Expenditures (in millions)



Transportation Spending HF + HTF: Secondary Roads

Remaining Mileage of Eligible Unpaved Roads

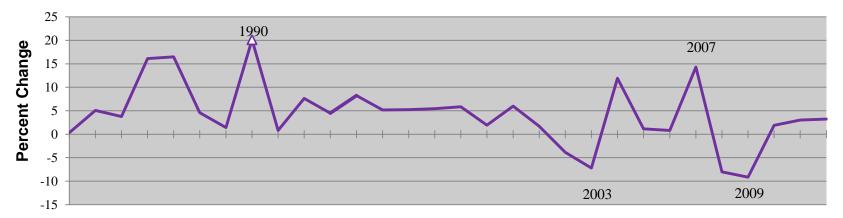


Transportation Spending HF + HTF: Aid to Municipalities

- History and Formula
- Comparative Allocations
- Funding Constraints
 - Economic/GrowthPatterns/Legislative

% Change:			
1985 to 2012			
Municipalities	9%		
Population	91%		
Mileage 67%			

Total Amount Distributed: Annual % Change, 1983-2012



Transportation Spending Potential Items for Consideration

- What are your transportation funding priorities?
- Is it time to rethink the Highway Fund and Highway Trust Fund? Do the original purposes continue to exist?
- Is spending flowing to the areas with the greatest needs?
- Is it time to revisit the Equity Formula?

Transportation Spending Potential Items for Consideration

- Should changes to the unpaved secondary road be made?
- Should existing Turnpike Projects be re-examined?
- Should tolls be used outside of existing Turnpike projects?
- Others?

Summary

- North Carolina has a large, centralized highway system with state, not county, responsibility for secondary roads.
- The Highway Trust Fund was established in 1989 and, with federal aid, is the state's construction fund.
- The condition of the state's roads will deteriorate without additional funding for maintenance and preservation.
- Revenues will grow slowly under the current transportation tax structure while construction costs will rise.
- Expected population growth will put additional demands on new construction.

Questions?